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Levels of interleukin 4 and immune globulin e in umbilical cord blood of allergic mother sons

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The development of allergic pathology occurs as a consequence of an alteration of the natural immunity, and of the mechanisms of corporal protection. Elevated levels of immunoglobulin E in umbilical cord blood have been reported to be directly related to the development of allergies in children, particularly those with a family history of allergic diseases. Our research aimed to determine the levels of Interleukin 4 and Immunoglobulin E in umbilical cord blood of healthy subjects of mothers with a history of allergy, and our link with the appearance of allergic diseases in the first trimester of life.

Of the total population studied (62), 16 subjects concluded the study, of which 12 belonged to the experimental group. We found no significant correlation between cord blood values and maternal IgE values. The main allergic manifestation in the experimental group was atopic dermatitis. We found no relation to elevated levels of IgE in cord blood with maternal which could be explained by the high specificity but low sensitivity of IgE. Subjects who had detectable levels of interleukin 4 in umbilical cord blood persisted with detectable values at 3 months of life, suggesting that these values are much more sensitive as predictors of future allergy development.

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Conflicts of interest

None.